State of Utah

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Department of
Environmental Quality

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Acting Executive Director

DIVISION OF AIR QUALITY
Cheryl Heying
Director

DAQE-IN0121130001-09

January 15, 2009

Mike Dalley
Staker & Parson Companies
151 West Vine St.
Murray, UT 84107

Dear Mr. Dalley:

Re: Intent to Approve: Modification to Approval Order DAQE-032-01, Add Equipment and Separate Sources to the Daniels Canyon Pit; Wasatch County; CDS SM; Attainment Area, MACT (Part 63), NSPS (Part 60)
Project Number: N012113-0001

The attached document is the Intent to Approve for the above-referenced project. The Intent to Approve is subject to public review. Any comments received shall be considered before an Approval Order is issued. The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an Approval Order. An invoice will follow upon issuance of the final Approval Order.

Future correspondence on this Intent to Approve should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. The project engineer for this action is Mr. Alan Humpherys, who may be reached at (801) 536-4142.

Sincerely,

John T. Blanchard, Manager
Minor New Source Review Section

JTB:AH:sa

cc: Mike Owens
Wasatch County Health Department

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

INTENT TO APPROVE: Modification to Approval Order DAQE-032-01, Add Equipment and Separate Sources to the Daniels Canyon Pit

Prepared By: Mr. Alan Humpherys, Engineer
Phone: (801) 536-4142
Email: ahumpherys@utah.gov

INTENT TO APPROVE NUMBER

DAQE-IN0121130001-09

Date: January 15, 2009

Daniels Canyon Pit

Source Contact:
Mr. Mike Dalley
Environmental Contact
Phone: (801) 258-3900

John T. Blanchard, Manager
Minor New Source Review Section
Utah Division of Air Quality

ABSTRACT

Staker & Parson Companies currently operates an aggregate crushing and screening plant near Heber City, Utah under AO #DAQE-032-01. There are currently three sites that Staker & Parson Companies operates included in AO #DAQE-032-01. The sites are the Daniels Canyon Pit located in Summit County, the Erda Pit located in Tooele County, and the South Willow Pit located in Tooele County. Staker & Parson Companies has requested to modify their AO to add equipment to their aggregate plant at the Daniels Canyon Pit. Also, for each different location the current AO will be separated into three AOs with each site having a separate AO. This source is a Title V Area Source.

The emissions, in tons per year, will change as follows: PM_{10} + 5.63, NO_x + 36.51, SO_2 + 6.82, CO + 6.85, VOC + 0.53

The changes in emissions will result in the following, in tons per year, potential to emit totals: PM_{10} = 10.31, NO_x = 45.02, SO_2 = 7.59, CO = 10.32, VOC = 1.20

The NOI for the above-referenced project has been evaluated and has been found to be consistent with the requirements of UAC R307. Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Executive Secretary of the Utah Air Quality Board.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notification of the intent to approve will be published in the Wasatch Wave on January 21, 2009. During the public comment period the proposal and the evaluation of its impact on air quality will be available for the public to review and provide comment. If anyone so requests a public hearing, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated. The proposed conditions of the AO may be changed as a result of the comments received.

Name of Permittee:

Staker & Parson Companies
151 West Vine St.
Murray, UT 84107

Permitted Location:

Staker & Parson Companies: Daniels Canyon Pit
3.75 Southeast of Junction US 189 and US 40
Wasatch County, UT

UTM coordinates:468,500 m Easting, 4,478,000 m Northing
SIC code: 1442 (Construction Sand & Gravel)

Section I: GENERAL PROVISIONS

I.1 All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]

I.2 The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]

I.3 Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]

I.4 All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401]

I.5 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]

I.6 The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring. [R307-150]

I.7 The owner/operator shall comply with UAC R307-107. General Requirements: Unavoidable Breakdowns. [R307-107]

Section II: SPECIAL PROVISIONS

II.A The approved installations shall consist of the following equipment:

II.A.1 **Daniels Canyon Pit**

II.A.2 **One (1) Jaw Crusher**
Rated Capacity: 500 tons per hour

II.A.3 **One (1) Vibrating Grizzly Feeder**
Rated Capacity: 500 tons per hour

II.A.4 **Four (4) Triple Deck Screens**
Rated Capacity: 500 tons per hour each

II.A.5 **Two (2) Cone Crushers**
Rated Capacity: 500 tons per hour each

II.A.6 **Two (2) VSI Crushers**
Rated Capacity: 500 tons per hour each

II.A.7 **One (1) 800 kW Diesel Generator**

II.A.8 **Various Conveyors**

II.B Requirements and Limitations

II.B.1 **The Daniels Canyon Pit shall be subject to the following**

II.B.1.a The source shall notify the Executive Secretary in writing when the aggregate equipment listed in this AO has been installed and is operational. To ensure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section.

If the construction and/or installation has not been completed within 18 months from the date of this AO, the Executive Secretary shall be notified in writing on the status of the construction and/or installation. At that time, the Executive Secretary shall require documentation of the continuous construction and/or installation of the operation and may revoke the AO. [R307-401-18]

II.B.1.b Unless otherwise specified in this AO, visible emissions from the following emission points shall not exceed the following values:

A. All crushers - 15% opacity

B. All screens - 10% opacity

C. All conveyor transfer points - 10% opacity

D. All conveyor drop points - 20% opacity

E. All diesel engines - 20% opacity

F. All other points - 20% opacity. [R307-401]

II.B.1.b.1 Unless otherwise specified in this AO, opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-201]

II.B.2 **Haul Roads and Fugitive Dust Sources shall be subject to the following**

II.B.2.a The owner/operator shall not allow visible emissions from haul roads and fugitive dust sources to exceed 20 percent opacity at all times. [R307-205]

II.B.2.a.1 Visible emission determinations for fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Visible emissions shall be measured at the densest point of the plume but at a point not less than 1/2 vehicle length behind the vehicle and not less than 1/2 the height of the vehicle. [R307-205]

II.B.2.b All unpaved haul roads and other unpaved operational areas that are used by mobile equipment shall be water sprayed to control fugitive dust. Application shall be of sufficient frequency and quantity to maintain the surface material in a damp/moist condition and to maintain the opacity

limits listed in this AO at all times. If the temperature is below freezing, the owner/operator may stop applying water to the unpaved haul roads and other unpaved operational areas. [R307-401]

II.B.2.b.1 Records of water application shall be kept for all periods when the plant is in operation. The records shall include the following items:

A. Date and time treatments were made

B. Number of treatments made and quantity of water applied

C. Rainfall amount received, if any

D. Records of temperature, if the temperature is below freezing. [R307-401]

II.B.2.c The owner/operator shall use water sprays on all storage piles on site to control fugitive emissions. Sprays shall operate as needed to maintain the opacity limits listed in this AO or as determined necessary by the Executive Secretary. The owner/operator may stop spraying the storage piles with water if the temperature is below freezing. Records of water treatment shall be kept for all periods when the plant is in operation. [R307-401]

II.B.2.d The moisture content of the material passing a #40 U.S. Standard Sieve shall be maintained at a minimum of 4.0% by weight. The moisture content shall be tested if directed by the Executive Secretary using the appropriate ASTM method. [R307-401]

II.B.3 **The 800 kW Diesel Generator shall be subject to the following**

II.B.3.a The 800 kW Diesel Generator shall not exceed 3,500 hours of operation per rolling 12-month period. [R307-401]

II.B.3.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. [R307-401]

II.B.4 **The Aggregate Processing Plant shall be subject to the following**

II.B.4.a The aggregate processing plant shall not produce more than 500,000 tons of processed aggregate material per rolling 12-month period, and shall not produce more than 500 tons of processed aggregate material per hour. [R307-401]

II.B.4.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by scale records or sales records. The records of production shall be kept on a daily basis. [R307-401]

II.B.4.b The owner/operator shall install water sprays on all crushers, all screens, and all unenclosed conveyor transfer points on site to control fugitive emissions. Sprays shall operate as needed to maintain the opacity limits listed in this AO. [R307-401]

II.B.4.c The owner/operator shall abide by all applicable provisions of 40 CFR 60, NSPS Subpart A (General Provisions), 40 CFR 60.1 to 60.18 and Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), 40 CFR 60.670 to 60.676 for all crushers, screens, and conveyor transfer points on site. [40 CFR 60 Subpart OOO]

II.B.4.d Initial visible observations of opacity shall be conducted for all crushers, screens, and conveyor transfer points on site. Observations shall meet the opacity limitations listed in this AO. [40 CFR 60 Subpart OOO]

II.B.4.d.1 Initial observations of opacity shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9. Initial visible emission observations shall consist of 30 observations of six minutes each in accordance with 40 CFR 60.11(b). The duration of observations may be reduced to comply with 40 CFR 60.675(c)(3) or 40 CFR 60.675(c)(4). A certified observer must be used for these observations. [40 CFR 60 Subpart OOO]

II.B.5 **All Stationary Diesel Engines on site shall be subject to the following**

II.B.5.a The owner/operator shall use #1, #2 or a combination of #1 and #2 diesel fuel in all stationary diesel engines on site. [R307-401]

II.B.5.b The sulfur content of any fuel oil or diesel burned by the owner/operator on site shall not exceed 0.50 percent by weight. [R307-203]

II.B.5.b.1 The sulfur content shall be determined by ASTM Method D2880-71, D4294-89, or approved equivalent. Certification of used oil shall be either by the owner/operator's own testing or by test reports from the fuel oil or diesel fuel marketer. [R307-203]

II.B.5.c The owner/operator shall abide by all applicable provisions of 40 CFR 63, MACT Standards Subpart A (General Provisions), 63.1 to 63.16 and Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), 40 CFR 63.6580 to 63.6675 for stationary diesel engines on site. [40 CFR 63 Subpart ZZZZ]

II.B.5.d The owner/operator shall abide by all applicable provisions of 40 CFR 60, NSPS Subpart A (General Provisions), 40 CFR 60.1 to 60.18 and Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines), 40 CFR 60.4200 to 60.4219 for stationary diesel engines on site. [40 CFR 60 Subpart IIII]

Section III: APPLICABLE FEDERAL REQUIREMENTS

In addition to the requirements of this AO, all applicable provisions of the following federal programs have been found to apply to this installation. This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including UAC R307.

MACT (Part 63), A: General Provisions
MACT (Part 63), ZZZZ: Recipro. Int. Comb Engine (RICE)
NSPS (Part 60), A: General Provisions
NSPS (Part 60), IIII: Stationary Comp/Ignit R.I.C.E
NSPS (Part 60), OOO: NonmetallicMineral ProcessingPlnts

PERMIT HISTORY

The final AO will be based on the following documents:

Is Derived From	Additional Information dated January 6, 2009
Is Derived From	Additional Information dated November 26, 2008
Is Derived From	Additional Information dated November 17, 2008
Is Derived From	Additional NOI Information dated October 23, 2008
Is Derived From	Initial NOI dated August 16, 2007
Supersedes	DAQE-032-01 dated January 31, 2001

ACRONYMS

The following lists commonly used acronyms and their associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
ATT	Attainment Area
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by EPA to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	Carbon monoxide
COM	Continuous opacity monitor
DAQ	Division of Air Quality (typically interchangeable with UDAQ)
DAQE	This is a document tracking code for internal UDAQ use
EPA	Environmental Protection Agency
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
MACT	Maximum Achievable Control Technology
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO_x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM_{10}	Particulate matter less than 10 microns in size
$PM_{2.5}$	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO_2	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
UAC	Utah Administrative Code
UDAQ	Utah Division of Air Quality (typically interchangeable with DAQ)
VOC	Volatile organic compounds